

NRROS Protein, Human (Baculovirus, His-Myc)

Cat. No.:	HY-P72063
Synonyms:	NRROS; LRRC33; UNQ3030/PRO9833Transforming growth factor beta activator LRRC33; Leucine-rich repeat-containing protein 33; Negative regulator of reactive oxygen species
Species:	Human
Source:	Sf9 insect cells
Accession:	Q86YC3 (W19-L650)
Gene ID:	375387
Molecular Weight:	Approximately 73.5 kDa

PROPERTIES

AA Sequence						
	WRNRSGTATA	ASQGVCKLVG	G A A D C R G Q S L	ASVPSSLPPH		
	ARMLTLDANP	LKTLWNHSLQ	P Y P L L E S L S L	HSCHLERISR		
	GAFQEQGHLR	SLVLGDNCLS	ENYEETAAAL	HALPGLRRLD		
	LSGNALTEDM	AALMLQNLSS	LRSVSLAGNT	IMRLDDSVFE		
	GLERLRELDL	QRNYIFEIEG	GAFDGLAELR	HLNLAFNNLP		
	CIVDFGLTRL	RVLNVSYNVL	EWFLATGGEA	AFELETLDLS		
	HNQLLFFPLL	PQYSKLRTLL	LRDNNMGFYR	DLYNTSSPRE		
	MVAQFLLVDG	NVTNITTVSL	WEEFSSSDLA	DLRFLDMSQN		
	QFQYLPDGFL	R K M P S L S H L N	LHQNCLMTLH	IREHEPPGAL		
	TELDLSHNQL	SELHLAPGLA	SCLGSLRLFN	LSSNQLLGVP		
	PGLFANARNI	TTLDMSHNQI	SLCPLPAASD	RVGPPSCVDF		
	RNMASLRSLS	LEGCGLGALP	DCPFQGTSLT	YLDLSSNWGV		
	LNGSLAPLQD	VAPMLQVLSL	R N M G L H S S F M	ALDFSGFGNL		
	RDLDLSGNCL	T T F P R F G G S L	ALETLDLRRN	SLTALPQKAV		
	SEQLSRGLRT	IYLSQNPYDC	CGVDGWGALQ	HGQTVADWAM		
	VTCNLSSKII	RVTELPGGVP	RDCKWERLDL	GL		
Appearance	Lyophilized powder.					
Formulation	Lyophilized from a 0.2 μ m sterile filtered PBS, 6% Trehalose, pH 7.4.					
Endotoxin Level	$<1 \text{ EU/}\mu\text{g}$, determined by LAL method.					
Reconsititution	It is not recommended to reconstitute to a concentration less than 100 μ g/mL in ddH ₂ O.					
Chave as 0 Chability					、	
Storage & Stability	Stored at -20°C for 2 years. After reconstitution, it is stable at 4°C for 1 week or -20°C for longer (with carrier protein					
	recommended to freeze a	liquots at -20°C or -80°C for e	extended storage.			
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Snipping	Room temperature in continental US;may vary elsewhere.					

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DESCRIPTION

Background

NRROS, a key regulator of transforming growth factor beta-1 (TGFB1), plays a crucial role in microglia function within the nervous system. Its specific requirement for microglial activity involves the activation of latent TGFB1 in macrophages and microglia, accomplished by forming disulfide bonds with the Latency-associated peptide (LAP), the regulatory chain of TGFB1. NRROS orchestrates integrin-dependent activation of TGFB1, leading to highly localized TGF-beta-1 activation with limited spread to neighboring microglia. This localized and selective activation mechanism suggests the precision of LRRC33/NRROS in modulating TGFB1 signaling. Moreover, NRROS indirectly participates in Toll-like receptor (TLR) signaling, inhibiting TLR-mediated NF-kappa-B activation and cytokine production, possibly as a consequence of its role in TGF-beta-1 signaling. NRROS interacts with TGFB1 through disulfide bonds with LAP and engages with TLR2, TLR3, TLR4, TLR9, and potentially other Toll-like receptors, further emphasizing its multifaceted involvement in immune regulation. Additionally, NRROS directly interacts with CYBB/NOX2, highlighting its diverse functional associations.

Caution: Product has not been fully validated for medical applications. For research use only.

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